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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23911

7590

09/19/2008

CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300 EXAMINER

MCMAHON, MARGUERITE J

ART UNIT PAPER NUMBER

3747

DATE MAILED: 09/19/2008

| APPLICATION NO.                             | CATION NO. FILING DATE |               | FIRST NAMED INVENTOR |             |           |                  | ATTORNEY DOCKET NO. CONFIR |      |
|---|------------------------|---------------|----------------------|-------------|-----------|------------------|----------------------------|------|
| 10/564,952                                  | 07/11/2006             |               | Peter Joppig         |             |           | 095309.57284US   |                            | 4107 |
| <br>ITLE OF INVENTION:<br>OMBUSTION ENGINES | CONTROL OF A           | N ELECTRICALL | / HEATED             | PRE-HEATING | DEVICE FO | OR COLD-STARTING | INTERNAL                   |      |

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1440        | \$300               | \$0                  | \$1740           | 12/19/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

| appropriate. All further indicated unless correcte maintenance fee notifica  | correspondence includir<br>ed below or directed otl  | ng the Patent, advantage in Block 1,  | nce orders and notification by (a) specifying a new property of the control of th | ation of n  | naintenance fees w<br>pondence address;  | ill be<br>and/or                                      | mailed to the current (b) indicating a sepa                              | correspon<br>rate "FEE                  | idence address as<br>E ADDRESS" for                       |
|--|--|---|--|---|--|---|--|---|---|
| CURRENT CORRESPOND   | ldress)  | Fee(  | c) Transmittal This  | s certif  | can only be used for<br>icate cannot be used for<br>such as an assignment<br>ling or transmission.                       | or any oth  | er accompanying  |   |   |
| 23911  | 7590 09/19   | 9/2008  |  | nave  |  |   |  |   |   |
| CROWELL & INTELLECTUA P.O. BOX 14300   |  | I her<br>State<br>addr<br>trans   | reby certify that thi<br>es Postal Service w<br>essed to the Mail<br>smitted to the USPI   | s Fee(s<br>ith suf<br>Stop<br>TO (57  | of Mailing or Trans<br>s) Transmittal is being<br>ficient postage for firs<br>ISSUE FEE address<br>1) 273-2885, on the d | mission g deposited st class ma above, or ate indicat | d with the United<br>all in an envelope<br>being facsimile<br>ted below. |   |   |
| WASHINGTON   | I, DC 20044-4300   |   |  |   |  |   |  |   | (Depositor's name)  |
|  |  |   |  |   |  |   |  |   | (Signature)   |
|  |  |   |  |   |  |   |  |   | (Date)  |
| APPLICATION NO.  | FILING DATE  |   | FIRST NAMED IN   | VENTOR  |  | ATTO:   | RNEY DOCKET NO.  | CONFIR                                  | RMATION NO.   |
| 10/564,952   | 07/11/2006   | •   | Peter Jopp   | pig   | •  | 09  | 95309.57284US  |   | 4107  |
| TITLE OF INVENTION ENGIN   |  | AN ELECTRICAI   | LLY HEATED PRE   | -HEATIN   | G DEVICE FO  | R CO  | LD-STARTING IN   | TERNAL                                  |   |
| APPLN. TYPE  | SMALL ENTITY   | ISSUE FEE DUI   | E PUBLICATION I  | FEE DUE   | PREV. PAID ISSUE   | FEE   | TOTAL FEE(S) DUE   | Γ                                       | DATE DUE  |
| nonprovisional   | NO   | \$1440  | \$300  |   | \$0  |   | \$1740   | 1                                       | 12/19/2008  |
| EXAM   | IINER  | ART UNIT  | CLASS-SUBC   | CLASS-SUBCLASS  |  |   |  |   |   |
| MCMAHON, M   | IARGUERITE J   | 3747  | 123-5560   | 00  |  |   |  |   |   |
| 1. Change of corresponde<br>CFR 1.363).  Change of corresp<br>Address form PTO/SI  "Fee Address" ind<br>PTO/SB/47; Rev 03-0<br>Number is required.                     | (1) the names or agents OR (2) the name registered atto 2 registered p listed, no nam                          | 2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. |  |   |  |   |  |   |   |
| recordation as set fort  (A) NAME OF ASSIG   | less an assignee is ident<br>h in 37 CFR 3.11. Com<br>GNEE   | ified below, no assipletion of this form i  | ignee data will appear<br>is NOT a substitute for<br>(B) RESIDENC  | on the pa<br>filing an a  | ntent. If an assigne<br>assignment.<br>and STATE OR C  | OUNT  | RY)  |   |   |
| Please check the appropr   | iate assignee category or  | categories (will not  | be printed on the pate:  | nt): 🖵  | Individual LCo   | rporati   | on or other private gro  | oup entity                              | Government  |
| 4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies                              |  |   | ☐ A check is e☐ Payment by   | b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). |  |   |  |   |   |
| 5. Change in Entity Sta  | <b>tus</b> (from status indicate<br>is SMALL ENTITY state  |   | □ b Amaliaan   | da wa law   | on alaimina CMAI   | I DAM   | ΓΙΤΥ status. See 37 C  | ED 1.27(~)                              | \(2)  |
| NOTE: The Issue Fee and  | d Publication Fee (if req  | uired) will not be ac   | cepted from anyone of  |   |  |   |  |   |   |
| interest as shown by the   | records of the United Sta  | ites Patent and Trade   | emark Office.  |   |  |   |  |   |   |
| Authorized Signature   |  |   |  |   | Date   |   |  |   |   |
| Typed or printed name  |  |   |  |   | Registration N   | o   |  |   |   |
| This collection of inform<br>an application. Confident<br>submitting the completed<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | tiality is governed by 35<br>d application form to the<br>ions for reducing this bu<br>Virginia 22313-1450. DO | U.S.C. 122 and 37<br>E USPTO. Time wil<br>rden, should be sent  | CFR 1.14. This collect<br>l vary depending upon<br>to the Chief Informati  | tion is est<br>the indivi<br>ion Office   | imated to take 12 n<br>idual case. Any cor<br>r. U.S. Patent and 1   | ninutes<br>mment<br>Traden                            | to complete, includir<br>s on the amount of ti-<br>nark Office, U.S. Den | ng gatherin<br>me you rec<br>artment of | ng, preparing, and<br>quire to complete<br>Commerce, P.O. |

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| APPLICATION NO.                 | FILING DATE    | FIRST NAMED INVENTOR  | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|---------------------------------|----------------|-----------------------|---------------------|------------------|--|
| 10/564,952                      | 07/11/2006     | Peter Joppig          | 095309.57284US      | 4107             |  |
| 23911 7:                        | 590 09/19/2008 | EXAMINER              |                     |                  |  |
| CROWELL & M                     | ORING LLP      | MCMAHON, MARGUERITE J |                     |                  |  |
|                                 | PROPERTY GROUP | ART UNIT              | PAPER NUMBER        |                  |  |
| P.O. BOX 14300<br>WASHINGTON, 1 | DC 20044-4300  | 3747                  | 0                   |                  |  |

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 374 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 374 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

|   | Application No.   | Applicant(s)   |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
|   | 10/564,952  | JOPPIG ET AL.  |  |  |  |  |  |
| Notice of Allowability  | Examiner  | Art Unit   |  |  |  |  |  |
|   | Morguerite I McMahan  | 2747   |  |  |  |  |  |
|   | Marguerite J. McMahon   | 3747   |  |  |  |  |  |
| The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection | s application. If not included ation will be mailed in due course. <b>THIS</b> |  |  |  |  |  |
| 1. X This communication is responsive to initial filing dated 1/18  | <u>3/06</u> .   |  |  |  |  |  |  |
| 2. The allowed claim(s) is/are <u>7-22</u> .  |   |  |  |  |  |  |  |
| <ul> <li>3.  Acknowledgment is made of a claim for foreign priority une</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>   |   | ).   |  |  |  |  |  |
| <ol><li>Certified copies of the priority documents have</li></ol>   | • •   |  |  |  |  |  |  |
| <ol><li>Copies of the certified copies of the priority do</li></ol>   | cuments have been received in   | this national stage application from the                                       |  |  |  |  |  |
| International Bureau (PCT Rule 17.2(a)).  |   |  |  |  |  |  |  |
| * Certified copies not received:  |   |  |  |  |  |  |  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.   |   | eply complying with the requirements   |  |  |  |  |  |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm<br>INFORMAL PATENT APPLICATION (PTO-152) which give  |   |  |  |  |  |  |  |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") must   | st be submitted.  |  |  |  |  |  |  |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  |   |  |  |  |  |  |  |
| 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date  |   |  |  |  |  |  |  |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of<br>Paper No./Mail Date   |   |  |  |  |  |  |  |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t  |   |  |  |  |  |  |  |
| 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT   |   |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892)   | 5. ☐ Notice of Inform   | nal Patent Application   |  |  |  |  |  |
| 2. $\square$ Notice of Draftperson's Patent Drawing Review (PTO-948)  | 6. Interview Summ   |  |  |  |  |  |  |
| 3. ☑ Information Disclosure Statements (PTO/SB/08),   | Paper No./Mail<br>7.  | I Date<br>endment/Comment  |  |  |  |  |  |
| Paper No./Mail Date <u>1/18/06</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit  | 8. ⊠ Examiner's Stat  | . ☑ Examiner's Statement of Reasons for Allowance                              |  |  |  |  |  |
| of Biological Material  | 9.  |  |  |  |  |  |  |
| /Marguerite McMahon/  |   |  |  |  |  |  |  |
| Primary Examiner, Art Unit 3747   |   |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |

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#### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: The prior art fails to teach or fairly suggest the claimed invention as a whole including beginning a post-heating phase, in which the heating element is kept at a constant temperature by a relatively lower power, after the reference temperature has been reached and until the start-up phase, switching the heating element off in a first time period during the start-up phase, and switching the heating element on again in a second time period during the start-up phase in which the speed of the internal combustion engine is raised to the starting speed, in the context of a method for heating up the intake air of an internal combustion engine during a preglow phase or a start-up phase with at least one electrically heatable heating element in an intake line of the internal combustion engine, heating power being controlled by a control unit as a function of operating data of the internal combustion engine, comprising supplying the heating element with full current during the preglow phase until the heating element reaches its reference temperature.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marguerite J. McMahon whose telephone number is 571-272-4848. The examiner can normally be reached on Monday-Wednesday and Friday, 10am-6:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Cronin can be reached on 571-272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marguerite McMahon Primary Examiner Art Unit 3747

/Marguerite McMahon/ Primary Examiner, Art Unit 3747